



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339**

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

Vistawall Architectural Products

**803 Airport Road
Terrell, TX 75160**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series FG-5000 Flush Glazed Aluminum Storefront System – L.M.I.

APPROVAL DOCUMENT: Drawing No. **FG-5000-LM**, titled "Product Approval Drawings - FG-5000 Storefront System - Protocols: PA 201/202/203" sheets 1 through 12 of 12, dated 1/16/09, prepared by the manufacturer, signed and sealed by Lewis A. Waldrop, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # **04-0209.01** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 08-1118.06
Expiration Date: January 08, 2014
Approval Date: March 11, 2009
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **FG-5000_02**, titled "Product Approval Drawings - FG-5000 Storefront System - Protocols: PA 201/202/203", sheets 1 through 12 of 12, dated 1/16/09, prepared by the manufacturer, signed and sealed by Lewis A. Waldrop, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per FBC PA 202-94
3) Water Resistance Test, per FBC, PA 202-94
4) Large Missile Impact Test per FBC, PA 201-94
5) Cyclic Wind Pressure Loading per FBC, PA 203-94
along with marked-up drawings and installation diagram of 8 specimens of FG-5000 window wall system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0105-0612-02**, dated 06/10/02 to 07/15/02, signed and sealed by Vinu J. Abraham, P.E. *(Submitted under NOA#04-0209.01)*
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per PA 202-94
2) Large Missile Impact Test, SFBC PA 201- 94
3) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of a FG-5000 window wall system using 9/16" laminated glass with "Stormglass" laminate by Oldcastle Glass, prepared by Hurricane Test Laboratory, Test Report No. **HTL-0105-0920-03**, dated 9/17/03, signed and sealed by Vinu J. Abraham, P.E. *(Submitted under NOA#04-0209.01)*

(Next test reports submitted under NOA#01-0516.12 and are for reference only)

3. Test reports on: 1) Large Missile Impact Test, SFBC PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
3) Uniform Static Air Pressure Test, Loading per PA 202-94
along with installation diagram of a window wall system prepared by Hurricane Test Laboratory, Test Report No. **HTL-0105-0309-01**, dated 3/6/01, signed and sealed by Vinu J. Abraham, P.E.
4. Test reports on: 1) Large Missile Impact Test, SFBC PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of a window wall system prepared by Hurricane Test Laboratory, Test Report No. **HTL-0105-1212-00**, dated 12/18/00, signed and sealed by Vinu J. Abraham, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1118.06

Expiration Date: January 08, 2014
Approval Date: March 11, 2009

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. Test reports on: 1) Air Infiltration Test, per PA 202-94
2) Uniform Static Air Pressure Test, Loading per PA 202-94
3) Water Resistance Test, per PA 202-94
4) Forced Entry Test, per SFBC 3603.2(b) and PA 202-94.
5) Large Missile Impact Test, SFBC PA 201-94
6) Cyclic Loading Test, per SFBC PA 203-94
along with installation diagram of a window wall system prepared by Hurricane Test Laboratory, Test Report No. **HTL-0105-1212-00**, dated 12/21/00, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004 and 2007, prepared by Lewis A. Waldrop, P.E. Consulting Engineer, dated 11/07/08, signed and sealed by Lewis A. Waldrop, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass ® Plus**" dated 01/03/08, expiring on 01/14/12.
2. Notice of Acceptance No. **07-1116.11** issued to Saf-Glas, LLC for their "**SAF-GLAS Polycarbonate Laminate**", dated 12/27/07, expiring on 12/16/12.
3. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex IIIIG Clear or colored interlayer**" dated May 04, 2006, expiring on May 21, 2011.
4. Notice of Acceptance No. **04-0115.01** issued to Viracon, Inc. for their "**Viracon HRG-2**", dated 02/12/04, expiring on 02/12/09.
5. Notice of Acceptance No. **03-0514.15** issued to Oldcastle Glass Inc. for their "**Storm Glass used for lamination of glass**", dated 12/11/03, expiring on 12/11/08.

F. STATEMENTS

1. Statement letter of conformance, dated 02/16/09, signed and sealed by Lewis A. Waldrop, P.E.

G. OTHER

1. Notice of Acceptance No. **04-0209.01**, issued to Vistawall Architectural Products for their Series FG-5000 Flush Glazed Aluminum Window Wall System, approved on 03/04/04 and expiring on 01/08/09.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1118.06

Expiration Date: January 08, 2014
Approval Date: March 11, 2009

FG-5000 STOREFRONT FRAMING SYSTEM

INDEX TO DRAWINGS

SHEET 1: INDEX TO DRAWINGS AND NOTES
SHEET 2: TYPICAL ELEVATION
SHEET 3: HEAVY WALL & LIGHT WALL MULLION CAPACITY CHARTS
SHEET 4: REINFORCED MULLION & REINFORCED JAMB CAPACITY CHARTS
SHEET 5: ANCHORED JAMB CAPACITY CHART
SHEET 6: GLAZING CAPACITY CHART
SHEET 7: HEAD & SILL ANCHOR LOAD CAPACITY CHART
SHEET 8 - 10: TYPICAL SYSTEM DETAILS
SHEET 11: SYSTEM DIE DRAWINGS
SHEET 12: BILL OF MATERIALS / ANCHOR SCHEDULE

GENERAL NOTES

- 1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE 2007 EDITION FBC INCLUDING HIGH VELOCITY HURRICANE ZONE. (TAS 201, 202 203)
- 2) ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 3) A 33% INCREASE IN ALLOWABLE STRESS NOT USED IN ANALYSIS.
- 4) ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED PER FBC 2003.2.4

Lewis A. Waldrop, P.E.
P. O. Box 620
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706-778-3784

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Lewis A. Waldrop
1/28/09

PRODUCT REVIEWED
in compliance with the Florida
Building Code
08-1118.06
JAN 8, 2014
Yannick Poirier

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203
GENERAL NOTES
AND INFORMATION

DRAWN DGI 1/16/09
SCALE NOTED
DRAWING NO. FG-5000-LM
SHEET 1 OF 12

ENTIRE RE-DRAW DESCRIPTION

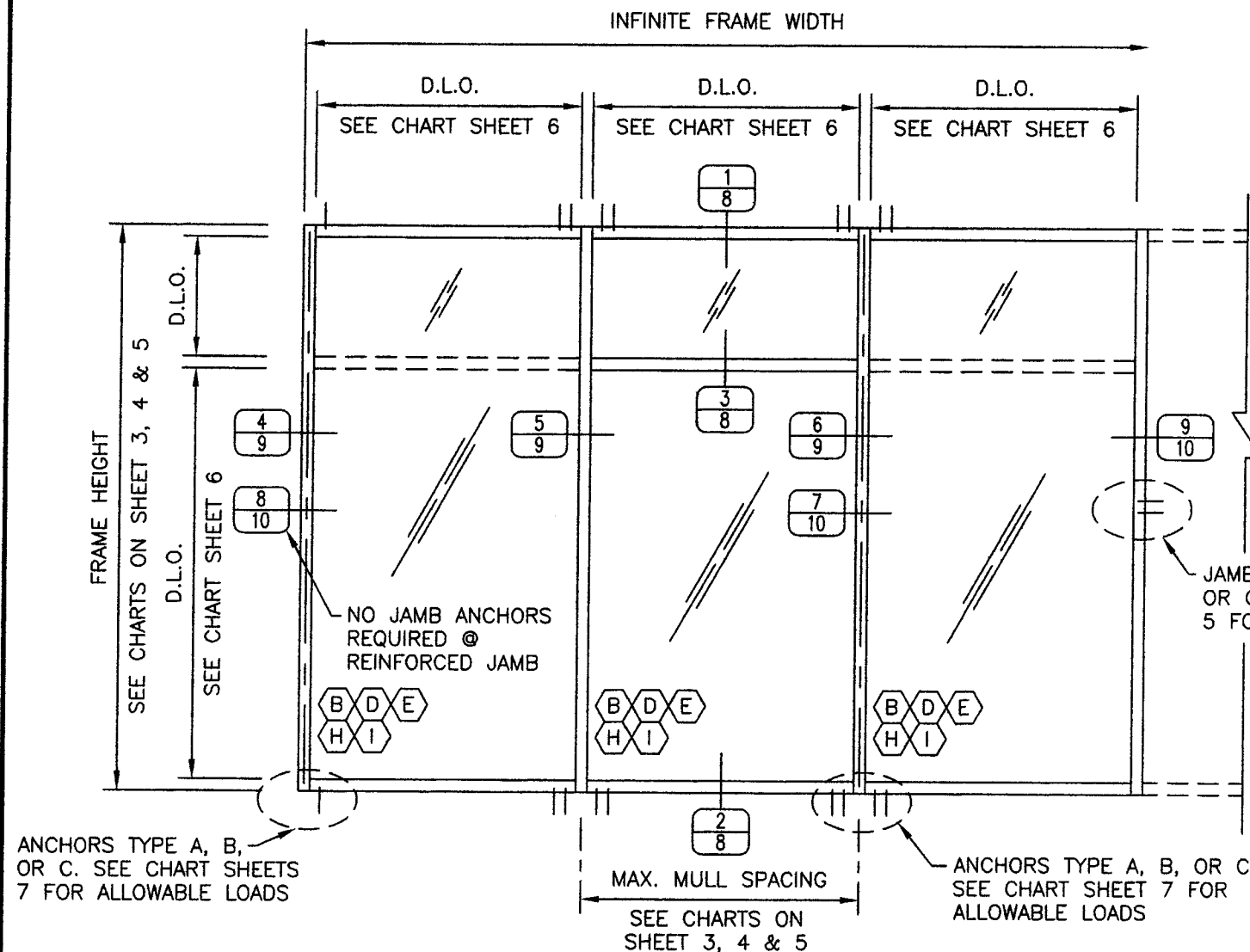
1/28/09 DATE

DGI BY

REV

MANUAL COMP

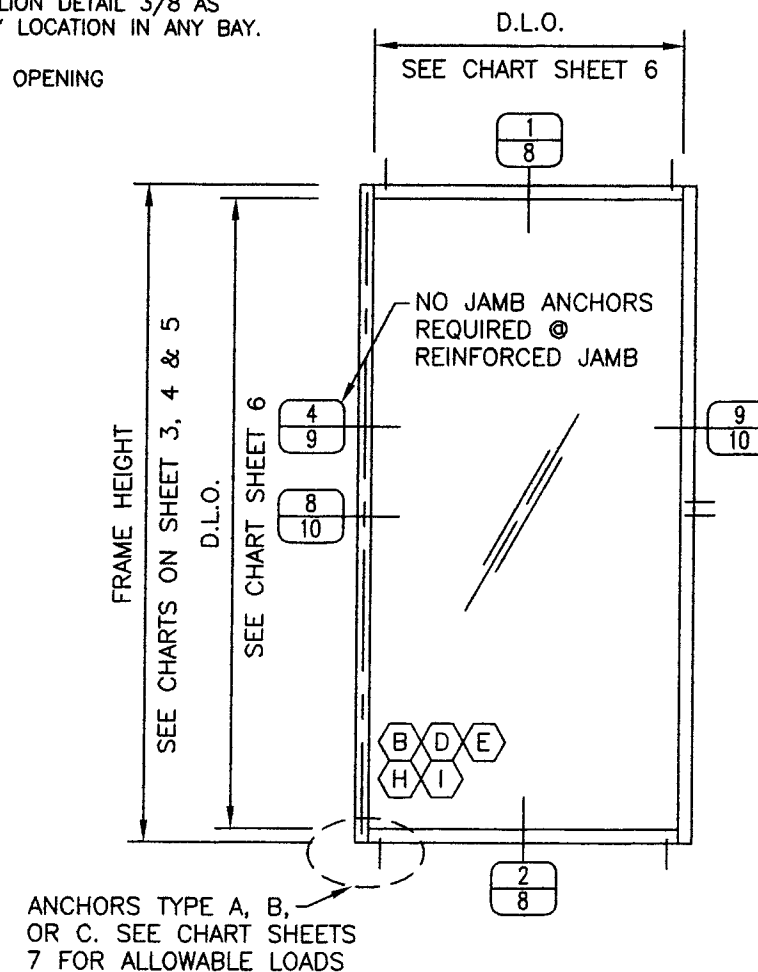
VISTAWALL SERIES FG5000 STOREFRONT SYSTEM



NOTE 1: ALTERNATE JAMB DETAILS 4/9 & 8/10 ARE OPTIONAL AT ANY WALL JAMB WITHOUT BEING ATTACHED TO SUBSTRATE.

NOTE 2: HORIZONTAL MULLION DETAIL 3/8 AS OPTIONAL AT ANY LOCATION IN ANY BAY.

NOTE 3: D.L.O. = DAYLITE OPENING



(E) - APPROVED GLAZING TYPES (SEE CHART ON SHEET 6)

SERIES FG 5000 STOREFRONT SYSTEM

THIS SYSTEM IS RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.

WOOD BUCKS, BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED AND SHOWN ON THE DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A 33% INCREASE IN ALLOWABLE STRESS IS NOT USED IN THE DESIGN OF THIS SYSTEM.

ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2: SEE CHARTS ON SHEET 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3, 4 & 5. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4: USING CHART ON SHEET 5 & 7 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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706-778-3784

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Van Walle
1/28/09

08-1118.06
JAN. 8, 2014
Manuel

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

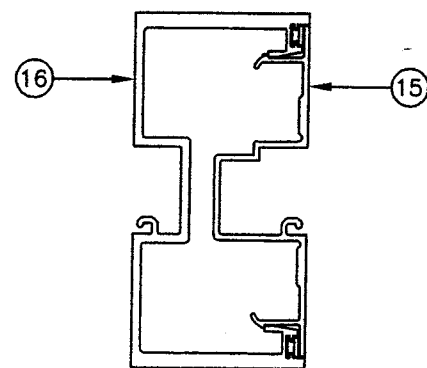
PROJECT NO.
DRAWN DGI DATE 1/16/09
SCALE NOTED
DRAWING NO. FG-5000-LM
SHEET 2 OF 12

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

MANUAL COMP
REV 1 BY DATE
1 DGI 1/26/09
ENTIRE RE-DRAW DESCRIPTION

MULLION LOAD CAPACITY – PSF FG-5155/FG-5109 MULL		
NOMINAL DIMS.		MAX. Pd
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
24"	89"	+70.0/-70.0
30"		+70.0/-70.0
36"		+70.0/-70.0
40"		+70.0/-70.0
44"		+70.0/-70.0
48"		+70.0/-70.0
52"		+70.0/-70.0
60"		+70.0/-70.0
24"	101"	+70.0/-70.0
30"		+70.0/-70.0
36"		+70.0/-70.0
40"		+70.0/-70.0
44"		+70.0/-70.0
48"		+70.0/-70.0
52"		+70.0/-70.0
60"		+70.0/-70.0
24"	116"	+40.0/-50.0
30"		+40.0/-50.0
36"		+40.0/-50.0
40"		+40.0/-50.0
44"		+40.0/-50.0
48"		+40.0/-50.0

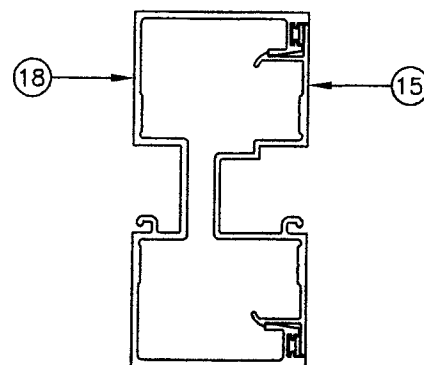
TYPICAL HEAVY WALL MULLION



FG-5155/FG-5109

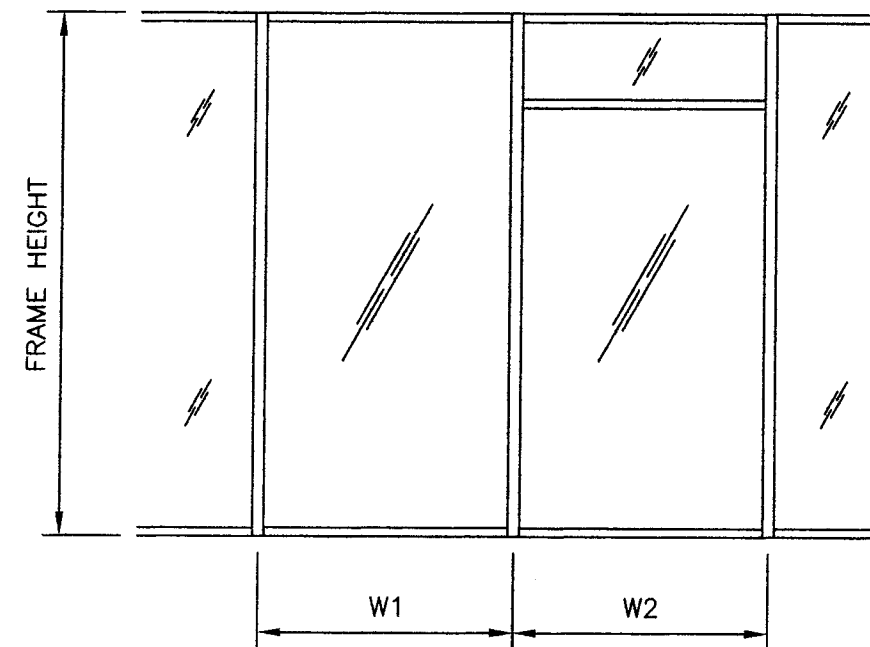
MULLION LOAD CAPACITY – PSF FG-5121/FG-5109 MULL		
NOMINAL DIMS.		MAX. Pd
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
24"	89"	+70.0/-70.0
30"		+70.0/-70.0
36"		+70.0/-70.0
40"		+70.0/-70.0
44"		+70.0/-70.0
48"		+70.0/-70.0
52"		+70.0/-70.0
60"		+70.0/-70.0

TYPICAL LIGHT WALL MULLION



FG-5121/FG-5109

TYPICAL ELEVATION



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

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1/24/09

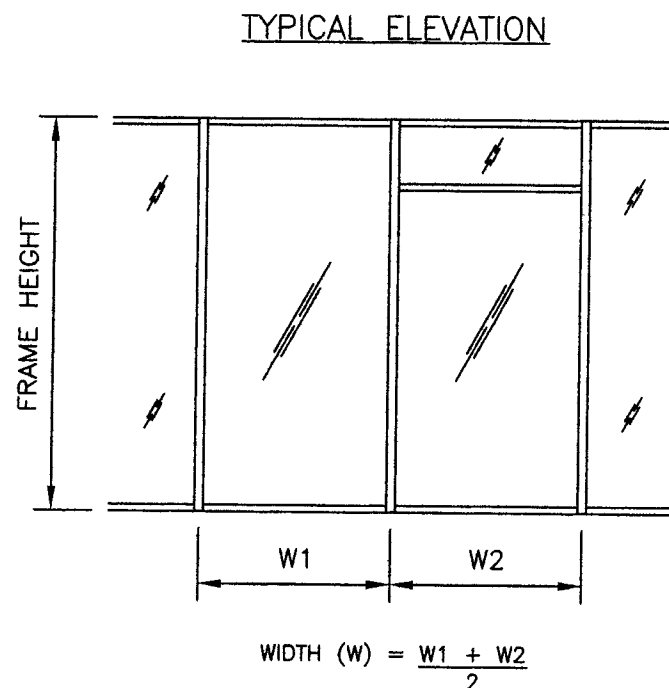
08-1118.06
JAN. 8, 2014
Yannick Sorel

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

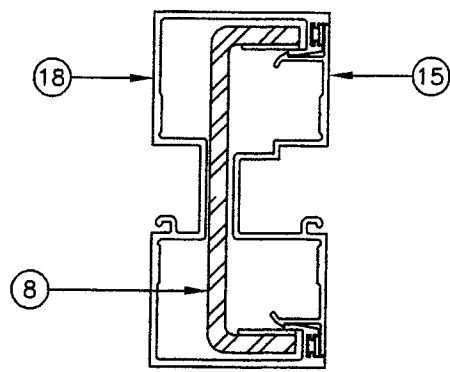
PROJECT APPROVAL DRAWINGS FG-5000 STOREFRONT SYSTEM PROTOCOLS: PA 201/202/203		VISTAWALL ARCHITECTURAL PRODUCTS 803 AIRPORT RD. TERRELL, TX 75160 (972) 551-6100 THE VISTAWALL GROUP BUTLER MANUFACTURING COMPANY	
PROJECT NO.		DATE	
DRAWN DGI		DATE 1/16/09	
SCALE NOTED		DRAWING NO. FG-5000-LM	
SHEET 3 OF 12		REVISIONS	
		1 DGI 1/26/09 ENTIRE RE-DRAW DESCRIPTION	

**MULLION LOAD
CAPACITY - PSF**
FG-5121/FG-5109 MULL
W/ FG-5000-PP-8 REINF.

NOMINAL DIMS.		MAX. Pd
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
24"	89"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	101"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	116"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	120"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0



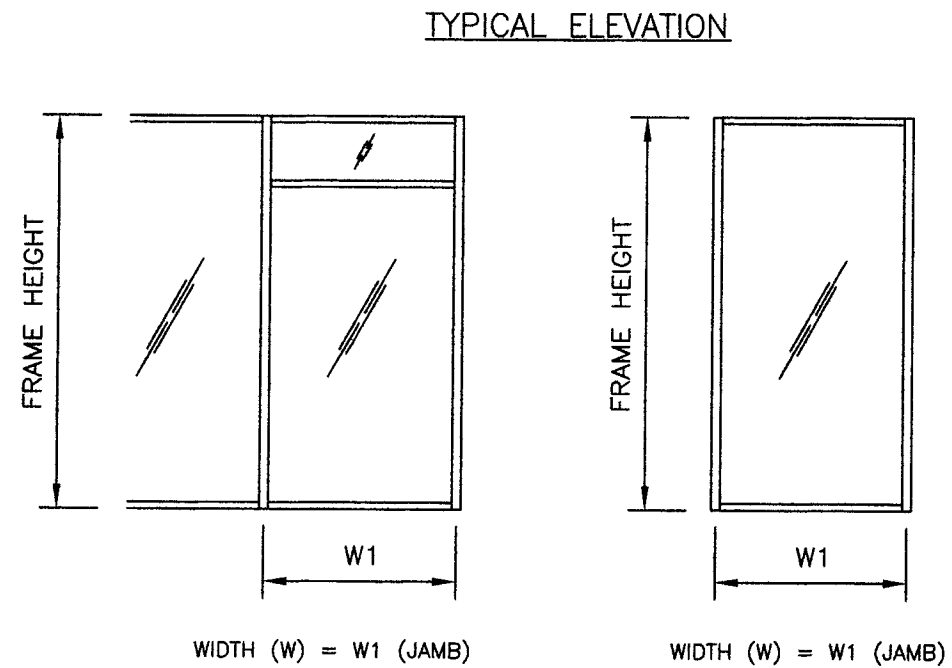
**TYPICAL LIGHT WALL MULLION
WITH STEEL REINFORCING**



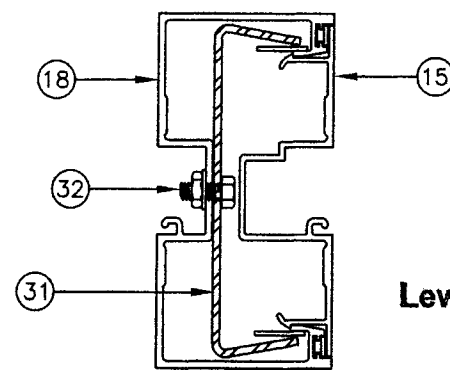
FG-5121/FG-5109
W/ FG-5000-PP-8
REINFORCING

**JAMB LOAD
CAPACITY - PSF**
FG-5161/FG-5109 JAMB
WITH FG-5000-PP-9 REINF.

NOMINAL DIMS.		MAX. Pd
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)
24"	89"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	101"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	116"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0
24"	120"	+80.0/-80.0
30"		+80.0/-80.0
36"		+80.0/-80.0
40"		+80.0/-80.0
44"		+80.0/-80.0
48"		+80.0/-80.0
52"		+80.0/-80.0
60"		+80.0/-80.0



**TYPICAL JAMB WITH
STEEL REINFORCING**



FG-5121/FG-5109 JAMB WITH
FG-5000-PP-9 STEEL REINFORCING
NO ANCHORAGE TO STRUCTURE

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Lewis A. Waldrop
1/29/09

PRODUCT REVISION
as per Florida
Building Code
Adoption No. 08-1118.06
JAN. 8, 2014
Manuel

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
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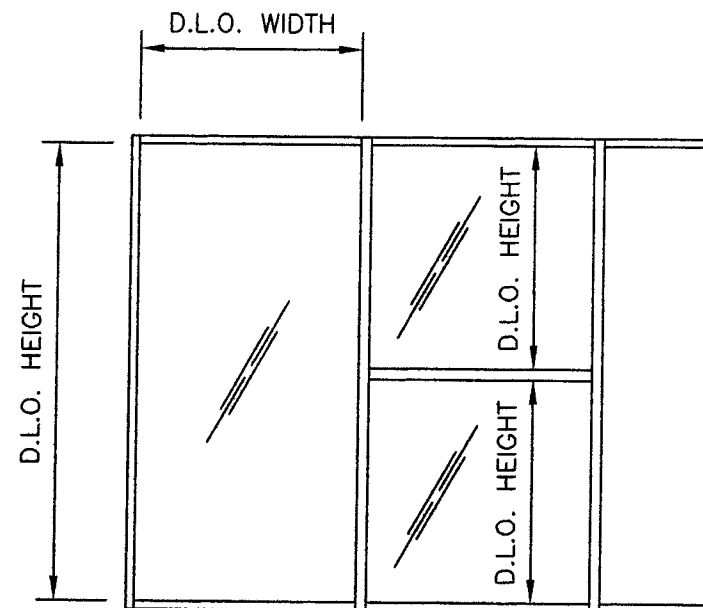
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

PROJECT NO.	
DRAWN	DATE
DGI	1/16/09
SCALE	NOTED
DRAWING NO.	FG-5000-LM
SHEET	4 OF 12

REVISION	DATE	DESCRIPTION
1	1/26/09	ENTIRE RE-DRAW

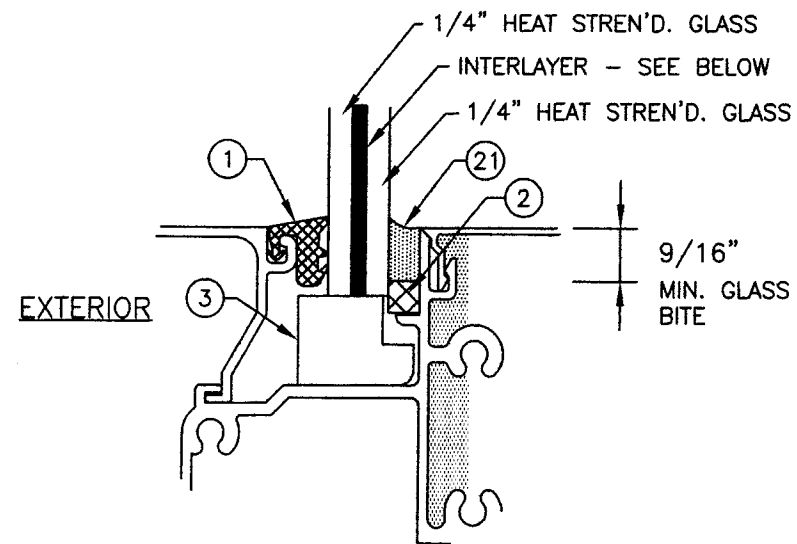
GLAZING SCHEDULE					
GLASS MARK SYMBOL	GLASS TYPE	MANUFACTURER	MAXIMUM D.L.O. SIZE	MAXIMUM SQUARE FEET	MAXIMUM DESIGN PRESSURE (PSF)
B	5/8" OVERALL THICKNESS LAMINATED GLASS "HRG-2", CONSISTING OF TWO 1/4" HS GLASS AND A .080 POLYCARBONATE INTERLAYER BETWEEN TWO .050 URETHANE INTERLAYER	VIRACON	57 1/2" X 115"	45.9	+80.0/-80.0
D	9/16" OVERALL THICKNESS LAMINATED GLASS "SAF-GLAS" .070 POLYCARBONATE INTERLAYER BETWEEN TWO .015" ADHESIVE LAYERS BY SIG. <i>CONSISTS OF TWO 1/4" HS GLASS</i>	SECURITY IMPACT GLASS	57 1/2" X 96"	38.3	+70.0/-70.0
E	9/16" OVERALL THICKNESS LAMINATED GLASS "SAFLEX" PLUS 100 CONSISTING OF TWO 1/4" HS GLASS, AND .090" SOLUTIA SAFLEX PVB INTERLAYER	SOLUTIA	45 1/2" X 111"	35.1	+40.0/-50.0
H	9/16" OVERALL THICKNESS LAMINATED GLASS "SENTRY GLAS PLUS 100", CONSISTING OF TWO 1/4" HS GLASS AND A .100" DUPONT SENTRYGLAS PLUS100 PVB INTERLAYER	DUPONT	57 1/2" X 96"	38.3	+70.0/-70.0
I	9/16" OVERALL THICKNESS LAMINATED GLASS STORMGLASS CONSISTING OF TWO 1/4" H.S GLASS AND A .075" OLDCASTLE INTERLAYER	OLDCASTLE	57 1/2" X 96"	38.3	+70.0/-70.0



NOTE:
GLASS CHECKED PER ASTM
E1300-02 AND TESTING

Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

TYPICAL GLAZING DETAIL



GLASS TYPES

- B - .050" URETHANE
.080" POLYCARBONATE
.050" URETHANE
AS MFG'D. BY VIRACON
- D - .015" ADHESIVE
.070" POLYCARBONATE
.015" ADHESIVE
AS MFG'D. BY S.I.G.
- E - .090" SAFLEX PVB
INTERLAYER BY SOLUTIA
- H - .100" SENTRYGLAS PLUS
INTERLAYER BY DUPONT
- I - *STORM GLASS*
.075" INTERLAYER BY OLD-
CASTLE

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

L. Waldrop
1/28/09

PRODUCT REVIEWED
on compliance with the Florida
Building Code
Approved By: *08-1118-06*
JAN 8, 2014
By: *Michael Perez*
Division

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

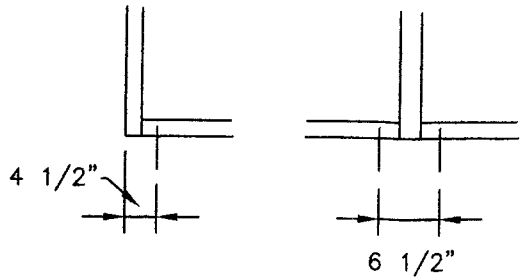
PROJECT NO.		DATE	
DGI	1/16/09	NOTED	
DRAWING NO.		SHEET	
FG-5000-LM		6 OF 12	

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

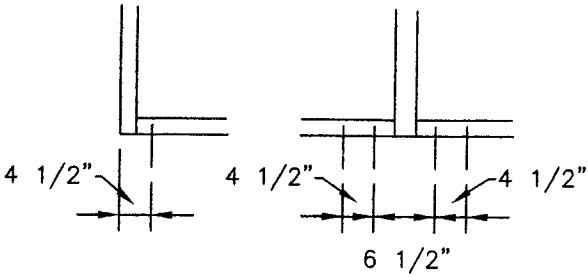
VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

ANCHOR LOAD CAPACITY (PSF) FOR 1/4" MAX. SHIM SPACE						
NOMINAL DIMS.		ANCHOR TYPE				
		"A1"	"B1"	"A2"	"C4"	"C5"
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24"	89"	+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
30"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
36"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
42"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
48"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
54"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
60"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
24"	101"	+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
30"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
36"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
42"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
48"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
54"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
60"		+70.0/-70.0	+80.0/-80.0	+80.0/-80.0	+70.0/-70.0	+70.0/-70.0
24"	116"	+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	+40.0/-50.0
30"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	+40.0/-50.0
36"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	+40.0/-50.0
42"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	+40.0/-50.0
48"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	+40.0/-50.0
54"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	-
60"		+40.0/-50.0	+80.0/-80.0	+80.0/-80.0	-	-
24"	120"	-	+80.0/-80.0	+80.0/-80.0	-	-
30"		-	+80.0/-80.0	+80.0/-80.0	-	-
36"		-	+80.0/-80.0	+80.0/-80.0	-	-
42"		-	+80.0/-80.0	+80.0/-80.0	-	-
48"		-	+80.0/-80.0	+80.0/-80.0	-	-
54"		-	+80.0/-80.0	+80.0/-80.0	-	-
60"		-	+80.0/-80.0	+80.0/-80.0	-	-

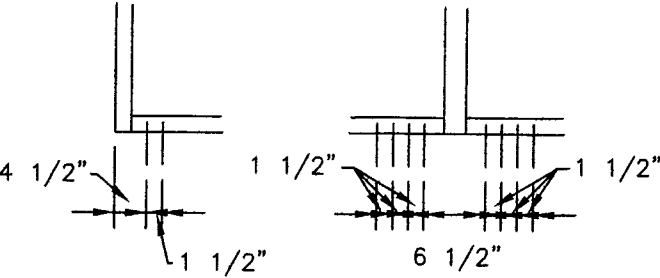
TYPICAL ANCHOR CLUSTERS



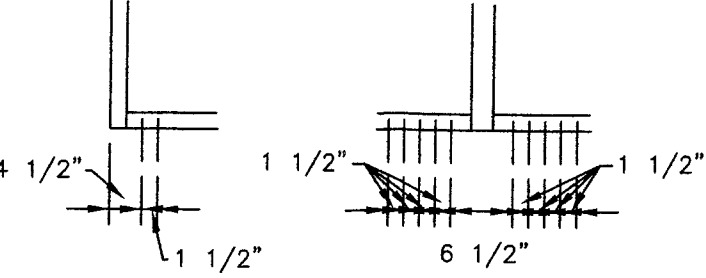
"A1", "B1"



"A2"

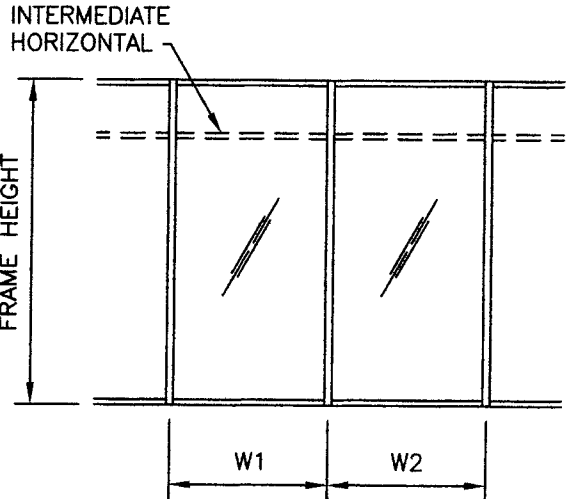


"C4"



"C5"

Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784



WIDTH (W) = $\frac{W1 + W2}{2}$

ANCHOR TYPES: SEE SHEET 12 FOR DESCRIPTION

- "A1" - (1) ANCHOR TYPE "A" EA. SIDE OF MULLION OR JAMB
"B1" - (1) ANCHOR TYPE "B" EA. SIDE OF MULLION OR JAMB
"A2" - (2) ANCHORS TYPE "A" EA. SIDE OF MULLION &
(1) ANCHOR TYPE "A" AT JAMB
"C4" - (4) ANCHORS TYPE "C" EA. SIDE OF MULLION &
(2) ANCHOR TYPE "C" AT JAMB
"C5" - (5) ANCHORS TYPE "C" EA. SIDE OF MULLION &
(2) ANCHOR TYPE "C" AT JAMB
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Signature
1/28/09

PROJECT NO. 08-1118.06
JAN 2, 2014
Signature

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

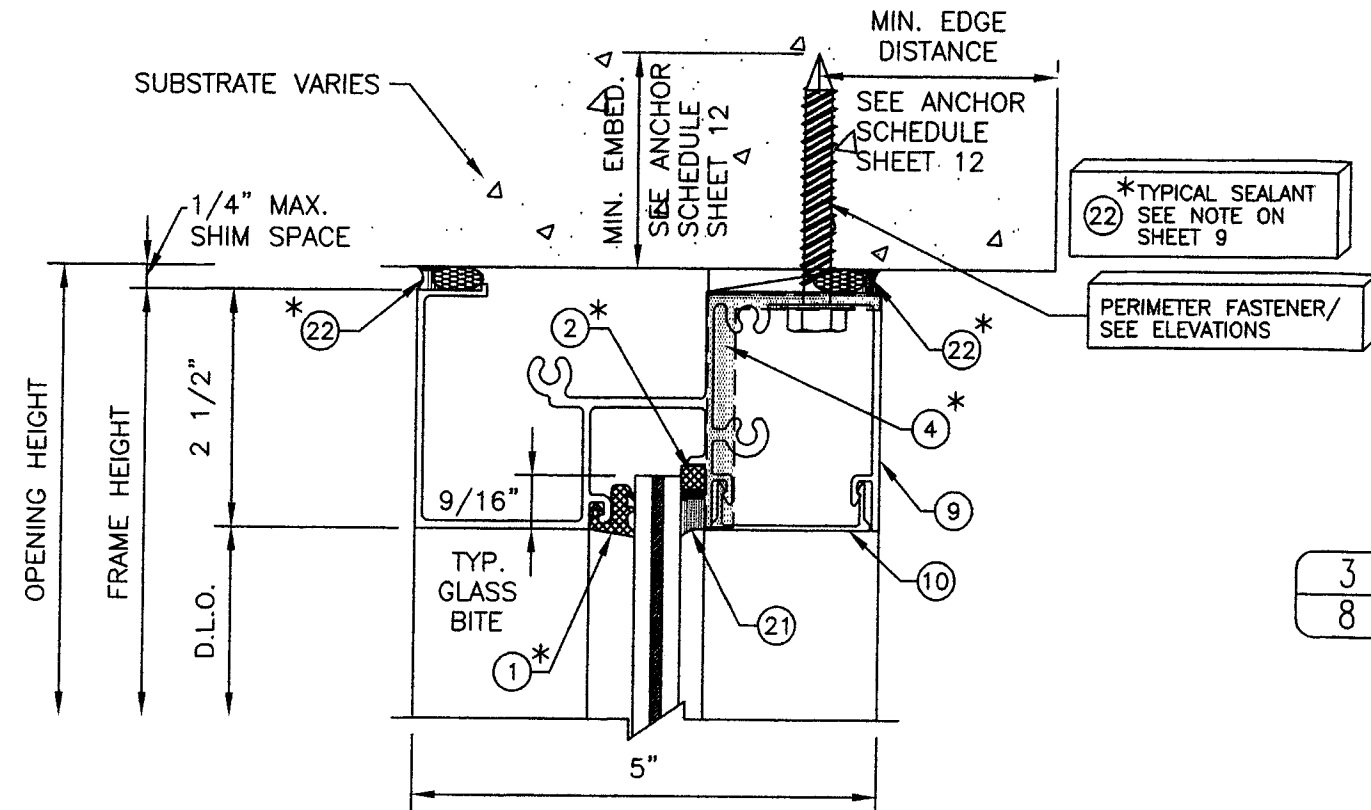
PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

PROJECT NO.
DRAWN DGI
DATE 1/16/09
SCALE NOTED
DRAWING NO. FG-5000-LM
SHEET 7 OF 12

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

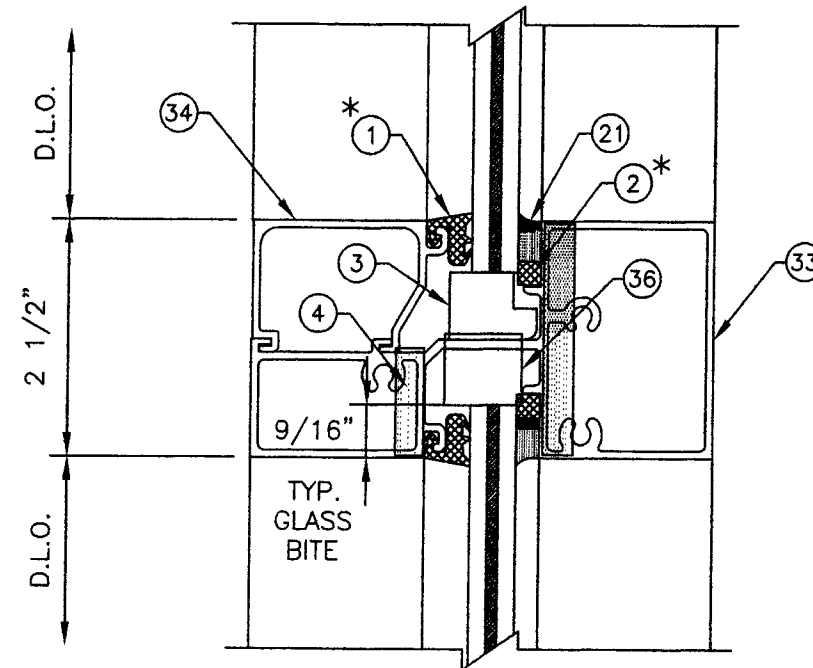
REVISION	DATE	DESCRIPTION
1	1/28/09	ENTIRE RE-DRAW

1
8

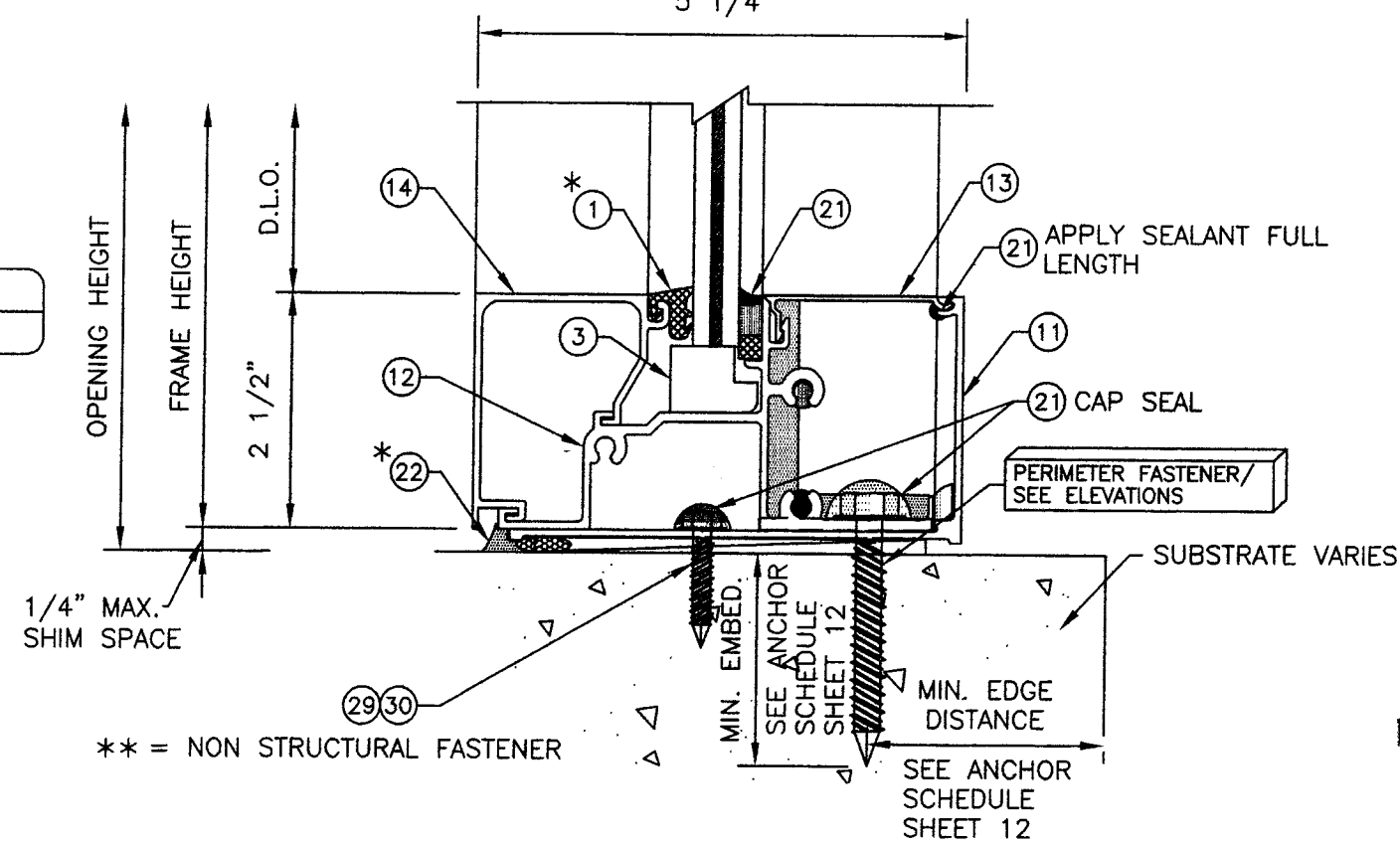


- 1* TYPICAL EXTERIOR GASKET
- 2* TYPICAL INTERIOR SPACER GASKET
- 4* TYP. @ ALL JOINT INTERSECTIONS
- 21* TYPICAL INTERIOR SEALANT

3
8



2
8



Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Lewis A. Waldrop
1/28/09

08-1118.06
JAN. 8, 2014
Manuel Sora

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

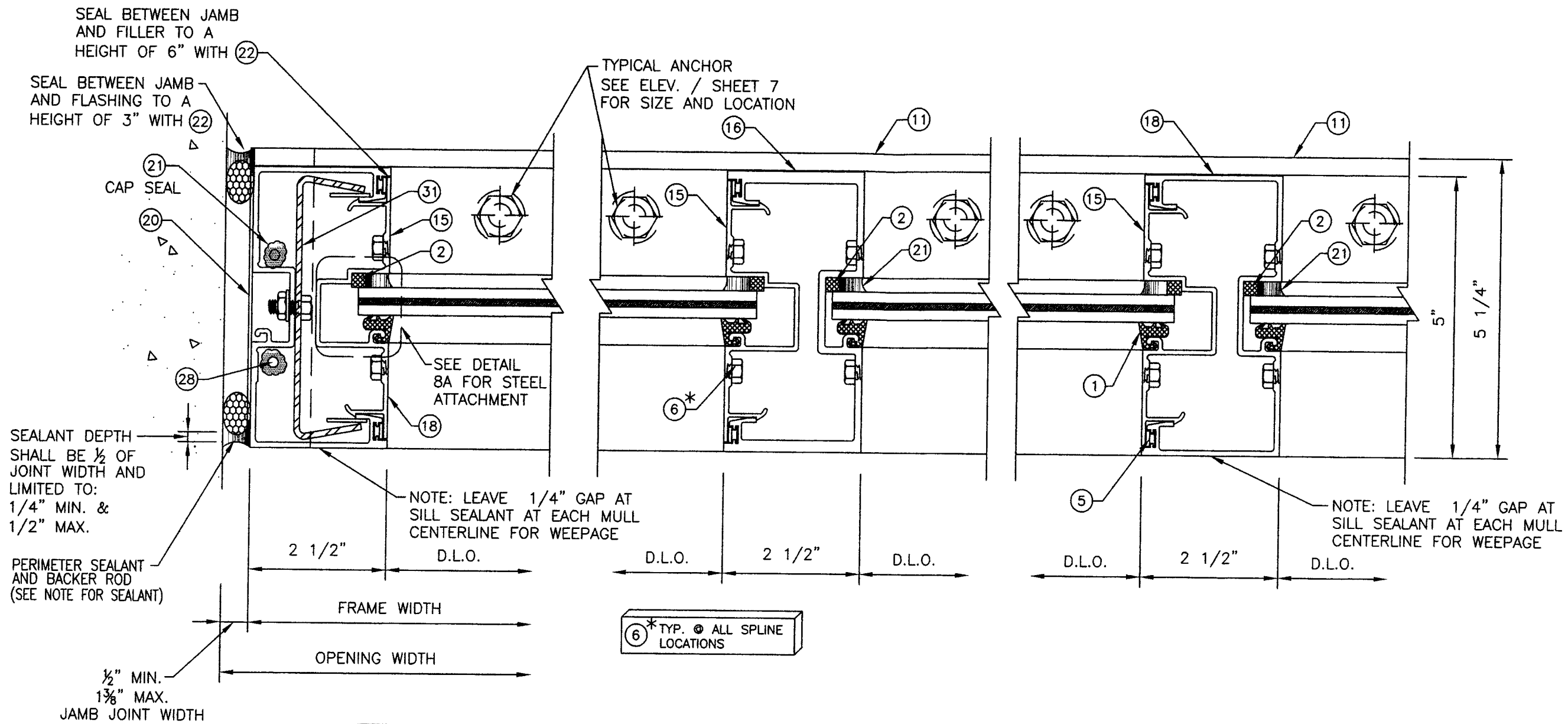
PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

PROJECT NO.	
DRAWN	DATE
DGI	1/16/09
SCALE	NOTED
DRAWING NO.	
FG-5000-LM	
SHEET	
8 OF 12	

MANUAL COMP

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

REV	BY	DATE	DESCRIPTION
1	DGI	1/28/09	ENTIRE RE-DRAW



SEALANT NOTES:

PERIMETER SEALANT OPTIONS:
 DOW 795 (SILICONE)
 TREMCO SPECTREM 2 & 3 (SILICONE)
 TREMCO DYMONIC FC (URETHANE)
 SONNEBORN SOLOLASTIC 150 (ELASTOMERIC)

ALTERNATE SEALANTS & ALTERNATE JAMB GAPS:
 TO BE APPROVED BY
 DESIGN PROFESSIONAL OF RECORD AND
 SEALANT MANUFACTURER.

Lewis A. Waldrop, P.E.
 P. O. Box 620
 Alto, GA 30510
 706-778-3784

Lewis A. Waldrop, P.E.
 FLA. P.E. #21959

Handwritten signature: Lewis A. Waldrop
Handwritten date: 1/28/09

PRODUCT REVISED
 as comply with the Florida Building Code
 Approved by: *Handwritten signature*
 Date: 08-11-06
 JAN 8, 2014

DRAWINGS FOR
 DADE COUNTY
 PRODUCT APPROVAL

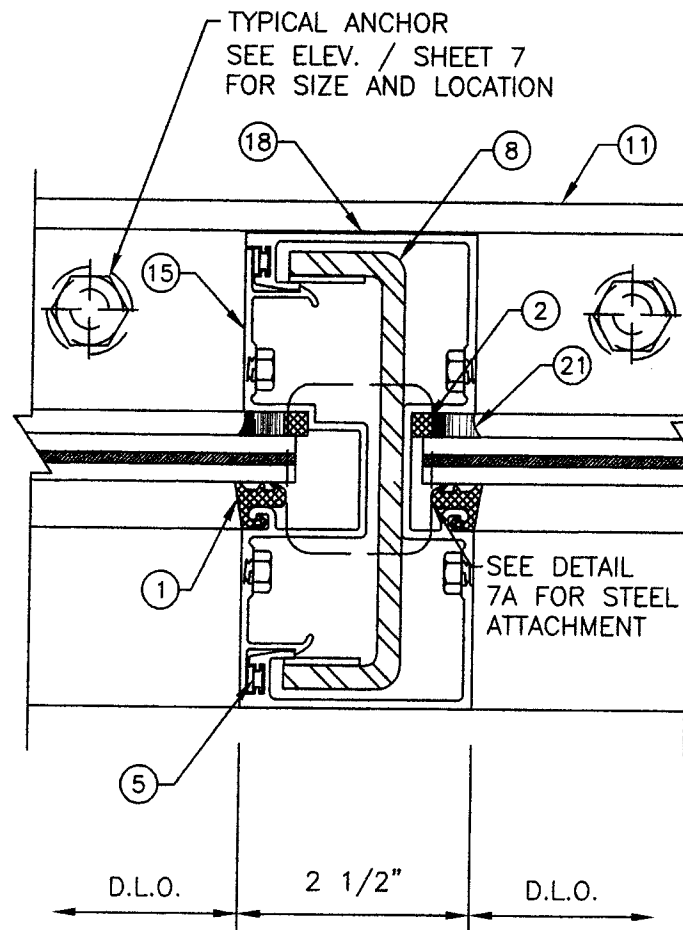
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PROJECT NO.		DATE	
DRAWN		DATE	
SCALE		NOTED	
DRAWING NO.		SHEET	
FG-5000-LM		9 OF 12	

PROJECT		REVISION	
PROJECT NO.		DATE	
DRAWN		DATE	
SCALE		NOTED	
DRAWING NO.		SHEET	
FG-5000-LM		9 OF 12	

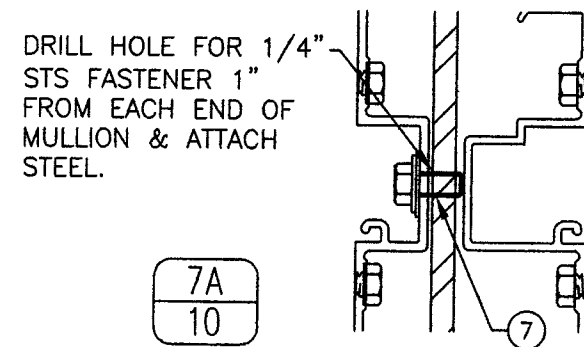
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PROJECT NO.		DATE	
DRAWN		DATE	
SCALE		NOTED	
DRAWING NO.		SHEET	
FG-5000-LM		9 OF 12	

VISTAWALL
 ARCHITECTURAL PRODUCTS
 803 AIRPORT RD. TERRELL, TX 75160
 (972) 551-6100
 THE VISTAWALL GROUP
 BUTLER MANUFACTURING COMPANY

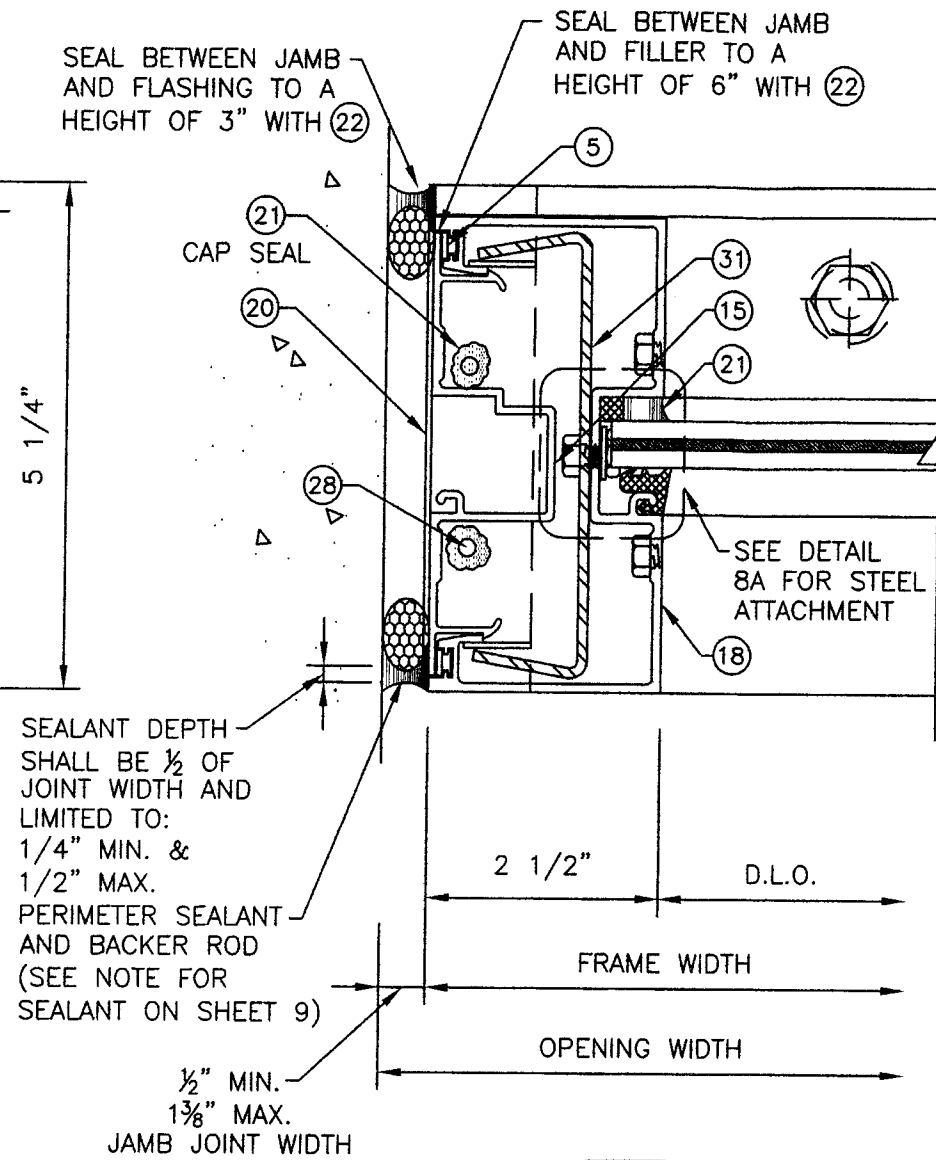
PRODUCT APPROVAL DRAWINGS
 FG-5000 STOREFRONT SYSTEM
 PROTOCOLS: PA 201/202/203



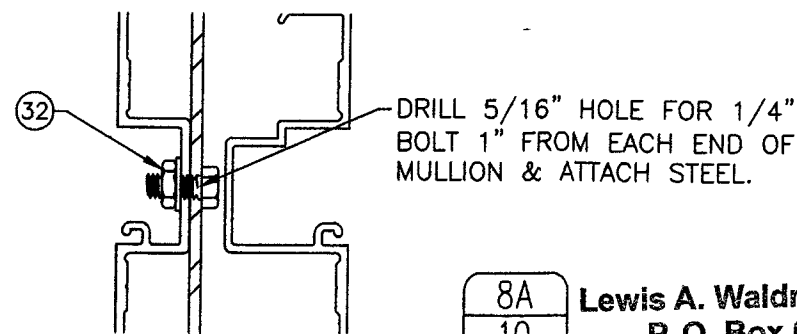
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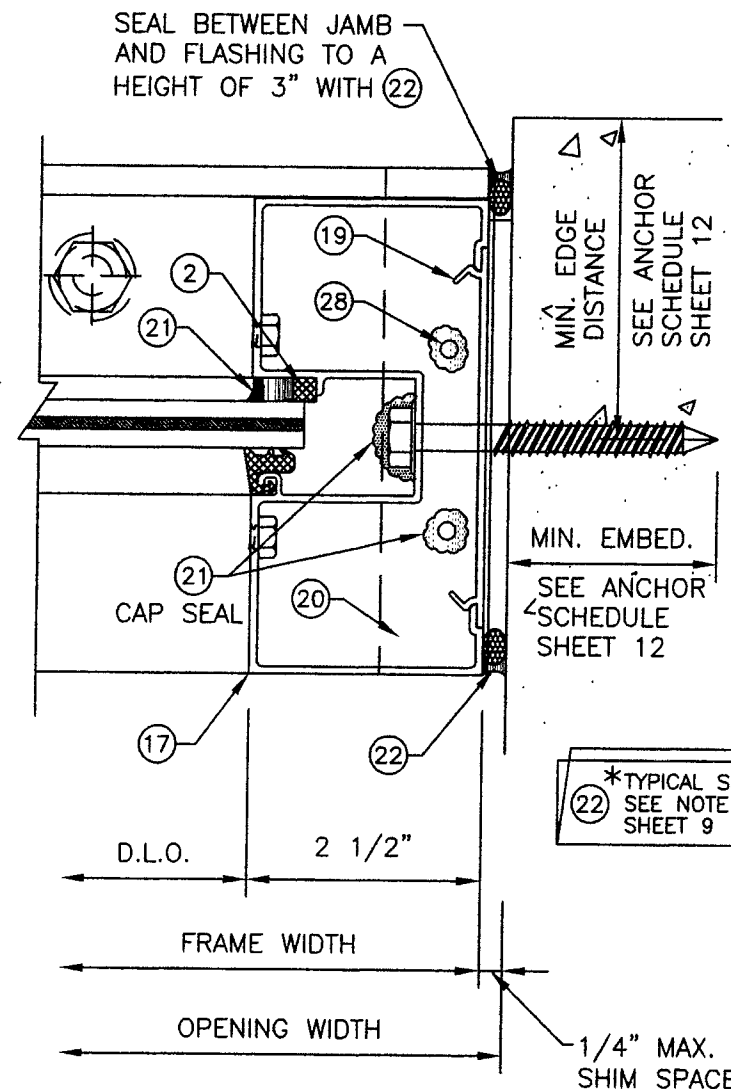
7A
10



8
10



8A
10



9
10

*TYPICAL SEALANT
(22) SEE NOTE ON
SHEET 9

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Jan 1/28/09

PRODUCT REVISED
as complying with the Florida
Building Code
Approved By: 08-1118-06
JAN 8, 2014
By: *Manuel Perez*
Product Control
Manager

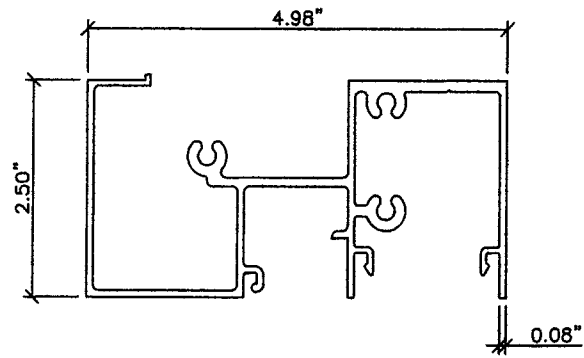
DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

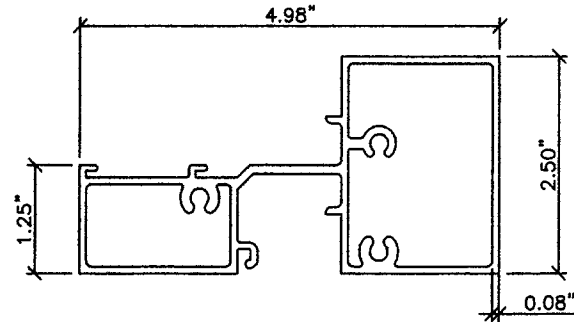
PROJECT NO.
DRAWN DGI DATE 1/16/09
SCALE NOTED
DRAWING NO. FG-5000-LM
SHEET 10 OF 12

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

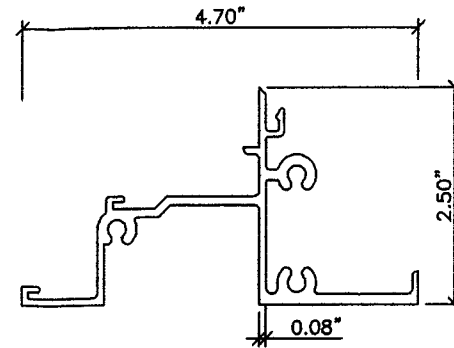
1 DGI 1/28/09
REV. BY DATE DESCRIPTION



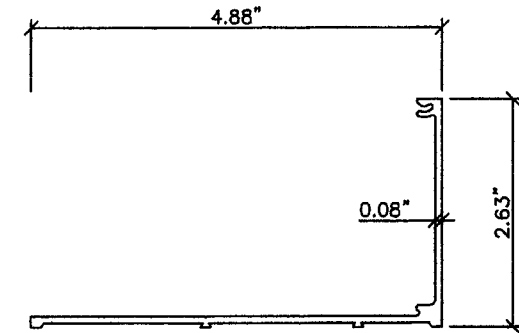
9 HEAD FG-5110



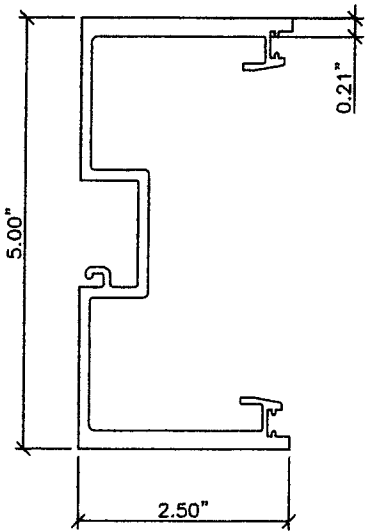
33 INTERMEDIATE HORIZONTAL FG-5111



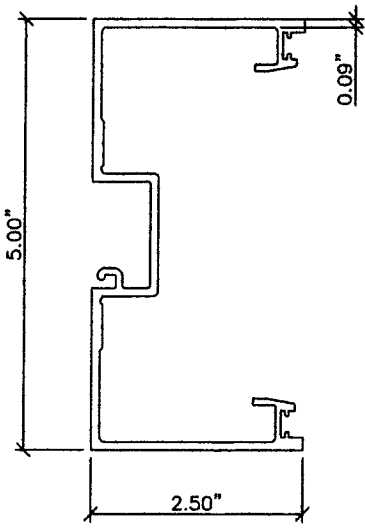
12 SILL FG-5112



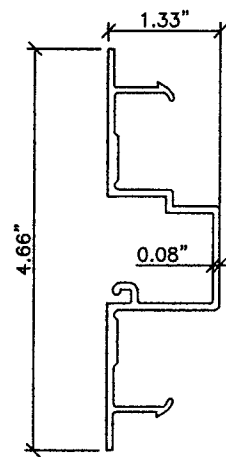
11 SUB-SILL FLASHING FG-5166



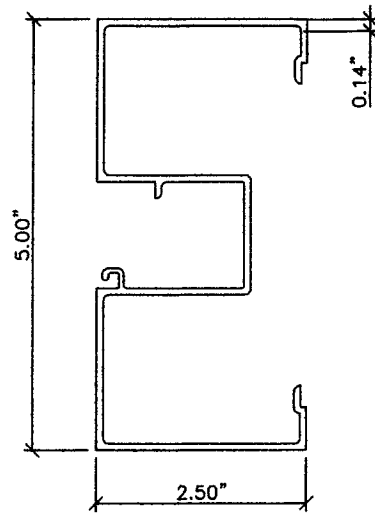
16 HEAVY WALL VERTICAL MULLION FG-5155



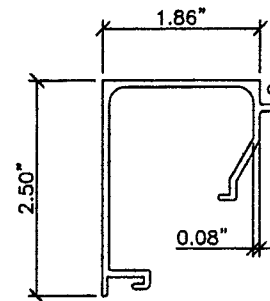
18 LIGHT WALL VERTICAL MULLION FG-5121



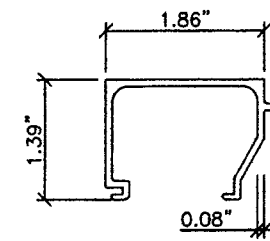
15 OPEN BACK MULLION FILLER FG-5109



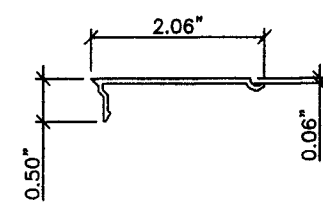
17 WALL JAMB FG-5161



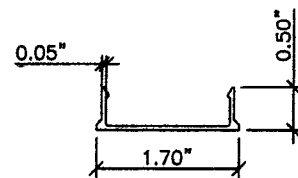
14 SILL GLASS STOP FG-5115



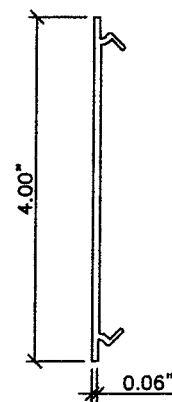
34 INTERMEDIATE HORIZONTAL GLASS STOP FG-5114



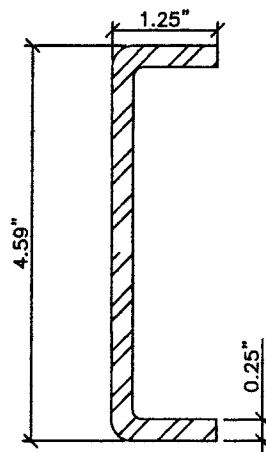
13 SILL FILLER FG-5165



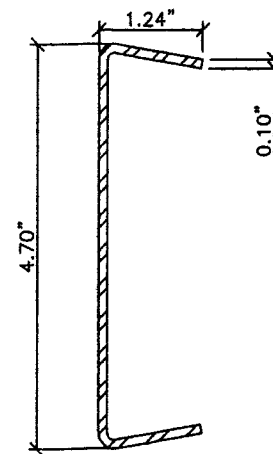
10 HEAD FILLER FG-5113



19 ANCHOR PLATE FG5000-PP-12



52 STEEL REINFORCING FG5000-PP-8



50 STEEL REINFORCING FG5000-PP-9

Lewis A. Waldrop, P.E.
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Alto, GA 30510
706-778-3784

FG-5000
EXTRUSION PROFILES

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

Handwritten signature and date: 1/28/09

Handwritten notes and date: 08-11-06, JAN 8, 2014

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

MANUAL COMP

VISTAWALL
ARCHITECTURAL PRODUCTS
803 AIRPORT RD. TERRELL, TX 75160
(972) 551-6100
THE VISTAWALL GROUP
BUTLER MANUFACTURING COMPANY

PRODUCT APPROVAL DRAWINGS
FG-5000 STOREFRONT SYSTEM
PROTOCOLS: PA 201/202/203

PROJECT NO.
DRAWN DGI DATE 1/16/09
SCALE NOTED
DRAWING NO. FG-5000-LM
SHEET 110F12

1 DGI 1/28/09
REV BY DATE
ENTIRE RE-DRAW DESCRIPTION
DESCRIPTION

BILL OF MATERIALS

ITEM No.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1.	FG-1133	EXTERIOR GLAZING GASKET	.197 SPACE	EPDM	VARIES	
2.	V2110	INTERIOR SSA TAPE	.312 X .312	THERMAL BOND	NORTON	
3.	FG-5105	SETTING BLOCK SILL & HORIZONTAL	4" LONG	EDPM	VISTAWALL	
4.	SM-5601	JOINT SEALANT TAPE	.125 X .50 VARIES	BUTYL	SCHNEE-MOREHEAD	
5.	CW 998	BULB GASKET FOR FILLER	VARIES	FOAM-TITE	AMESBURY	
6.	FS-8	SPLINE ASSEMBLY SCREW	#14 X 1 HHSTS	STEEL	VARIES	
7.	FS-38	ATTACH STEEL REINFORCEMENT	1/4-20 X 1/2" HH TYPE F	STEEL	VARIES	
8.	FG5000-PP-8	STEEL CHANNEL FOR FG-5121 (MULL)	1.25 X 4.562 X .250	A36 STEEL	VARIES	FULL LENGTH OF MULLION
9.	FG-5110	HEAD	2.50 X 4.98 X .080	6063-T6 ALUMINUM	VISTAWALL	
10.	FG-5113	HEAD FILLER	.50 X 1.697 X .050	6063-T5 ALUMINUM	VISTAWALL	
11.	FG-5166	SUB SILL FLASHING	2.625 X 4.875 X .078	6063-T5 ALUMINUM	VISTAWALL	
12.	FG-5112	SILL	2.50 X 4.703 X .080	6063-T6 ALUMINUM	VISTAWALL	
13.	FG-5165	SILL FILLER	.500 X 2.055 X .062	6063-T6 ALUMINUM	VISTAWALL	
14.	FG-5115	SILL GLAZING BEAD	2.500 X 1.863 X .078	6063-T6 ALUMINUM	VISTAWALL	
15.	FG-5109	OPEN BACK MULLION FILLER	.780 X 4.66 X .08	6063-T6 ALUMINUM	VISTAWALL	
16.	FG-5155	HEAVY WALL VERTICAL MULLION	2.50 X 5.00 X .213	6063-T6 ALUMINUM	VISTAWALL	
17.	FG-5161	WALL JAMB	2.50 X 5.00 X .075	6063-T6 ALUMINUM	VISTAWALL	
18.	FG-5121	LIGHT VERTICAL MULLION	2.50 X 5.00 X .094	6063-T6 ALUMINUM	VISTAWALL	
19.	FG5000-FP-12	ANCHOR PLATE	.375 X 4.00 X .070	6063-T6 ALUMINUM	VISTAWALL	18" LONG-CENTERED ON JAMB
20.	FG5000-FP-10	SILL FLASHING END DAM	2.50 X 1.00 X .062	6063-T6 ALUMINUM	VISTAWALL	5.00" LONG
21.	DOW 995	STRUCTURAL SILICONE	FILL SPACE	SILICONE	DOW CORNING	
22.	VARIES	PERIMETER SEALANT	FILL SPACE	VARIES	VARIES	SEE NOTE ON SHEET 9
23.	FASTENER	FOR ATTACHING HEAD TO STEEL SUBSTRATE	3/8" X 1 1/2" BOLT WITH NUT & WASHER	STEEL SAE J429 GRADE 5	VARIES	1 1/2" MIN. SPACING
24.	FASTENER	FOR ATTACHING JAMB TO STEEL SUBSTRATE	3/8" X 2" BOLT WITH NUT & WASHER	STEEL SAE J429 GRADE 5	VARIES	1 1/2" MIN. SPACING
25.	FASTENER	FOR ATTACHING SILL TO CONCRETE SUBSTRATE	3/8" X 2 1/2" LONG LD TAPCON	STEEL	VARIES	2" MIN. EMBEDMENT 4 1/2" MIN. SPACING
26.	FASTENER	FOR ATTACHING HEAD/SILL TO WOOD SUBSTRATE	3/8" X 2 1/2" LONG LAG BOLTS	STEEL	VARIES	2" MIN. EMBEDMENT 1 1/2" MIN. SPACING
27.	FASTENER	FOR ATTACHING JAMB TO WOOD SUBSTRATE	3/8" X 3" LONG LAG BOLTS	STEEL	VARIES	2" MIN. EMBEDMENT 1 1/2" MIN. SPACING
28.	POP RIVET	BUTTONHEAD RIVET FOR ATTACHING FG5000-FP-10 TO FG-5166	1/8" DIA X 3/8" - 1/2" GRIP	STEEL	VARIES	ATTACH AS SHOWN, USE #30 DRILL
29.	FASTENER	FOR ATTACHING SUB SILL FLASHING TO CONCRETE SUBSTRATE	3/8" X 2" SHWH	STEEL	TAPCON	1" MIN. EMBEDMENT SPACE AS REQUIRED NON-STRUCTURAL
30.	FASTENER	FOR ATTACHING SUBSILL FLASHING TO WOOD SUBSTRATE	3/8" X 2" LAG BOLT	STEEL	VARIES	1" MIN. EMBEDMENT SPACE AS REQUIRED NON-STRUCTURAL
31.	FG5000-PP-9	STEEL CHANNEL FOR FG-5121 (JAMB)	1.25 X 4.688 X 12ga	A36 STEEL	VISTAWALL	FULL LENGTH OF MULLION
32.	FS-39 FSN-37 FSW-65	ATTACHMENT OF STEEL REINFORCEMENT	1/4" X 1" HH BOLT W/ 1/4" NUT & (2) LOCKWASHERS	STEEL	VISTAWALL	ATTACH 1" FROM TOP AND 1" FROM BOTTOM
33.	FG-5111	INTERMEDIATE HORIZONTAL	2.50 X 4.98 X .080	6063-T6 ALUMINUM	VISTAWALL	
34.	FG-5114	GLASS STOP FOR INTERM. HORZ.	1.25 X 1.863 X .078	6063-T6 ALUMINUM	VISTAWALL	
35.	FASTENER	FOR ATTACHING JAMB TO CONCRETE	3/8" X 3" LONG LARGE DIA. TAPCON	STEEL	VARIES	2" MIN. EMBEDMENT 4 1/2" MIN. SPACING
36.	FG5000-FP-5 FG5000-FP-6	WATER DEFLECTORS	VARIES	RIGID VINYL	VISTAWALL	RIGHT HAND & LEFT HAND WATER DEFLECTORS @ EACH END OF ITEM #33

WOOD BUCKS NOT BY VISTAWALL
MUST SUPPORT LOADS IMPOSED BY
GLAZING SYSTEM AND TRANSFER THEM
TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:
SEE ELEVATIONS FOR SPACING

TYPE "A" - 3/8" LARGE DIAMETER TAPCONS

THRU 1BY WOOD OR 2BY WOOD BUCKS INTO
2500 PSI MIN. CONC. OR C-90 GROUT FILLED
BLOCK. 2" MIN. EMBED. INTO CONC. OR
MASONRY

DIRECTLY INTO 2500 PSI MIN. CONCRETE
2" MIN. EMBED. INTO CONC.

3 1/2" MIN. EDGE DISTANCE
4 1/2" MIN. SPACING

TYPE "B"- 3/8" HHMB GR. 5 WITH HEX NUT AND WASHER

INTO METAL STRUCTURES
(STEEL OR ALUM. 1/8" MIN. THICK.)

STEEL: F_y - 36 KSI MIN.
ALUMINUM: 6063-T5 MIN.
(STEEL IN CONTACT WITH ALUM. TO BE
PLATED OR PAINTED)

1 1/2" MIN. EDGE DISTANCE
1 1/2" MIN. SPACING

TYPE "C"- 3/8" LAG BOLT

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
2" MIN. PENETRATION INTO #2 SYP BUCK

1 1/2" MIN. EDGE DISTANCE
1 1/2" MIN. SPACING

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

PRODUCT REVISED
to comply with the Florida
Building Code
As of Date: 08-11-8
Electrical Plan JAN-8

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

Lewis A. Waldrop, P.E.
P. O. Box 620
Alto, GA 30510
706-778-3784

PROJECT PRODUCT APPROVAL DRAWINGS FG-5000 STOREFRONT SYSTEM PROTOCOLS: PA 201/202/203	VISTAWALL ARCHITECTURAL PRODUCTS 803 AIRPORT RD. TERRELL, TX 75160 (972) 551-6100 THE VISTAWALL GROUP BUTLER MANUFACTURING COMPANY							
	MANUAL COMP							
	REV	BY	DATE					
	1	DGI	1/26/09	ENTIRE RE-DRAW DESCRIPTION				
PROJECT NO. <hr/> DRAWN DGI DATE 1/16/09 <hr/> SCALE NOTED <hr/> DRAWING NO. FG-5000-LM <hr/> SHEET 12 OF 12								